



# SEQUENCE LISTING

<110> Ruoslahti, Erkki  
Fasqualini, Renata  
Rajotte, Daniel

<120> Methods of Identifying Lung Homing Molecules Using  
Membrane Dipeptidase

<130> P-LJ 4377

<140> 09/676,475  
<141> 2000-09-29

<150> 09/258,754  
<151> 1999-02-26

<160> 452

<170> PatentIn Ver. 2.0

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<400> 5  
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<400> 8  
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Arg Val Gly Leu Val Ala Arg  
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Val Lys Ser Val Cys Arg Thr  
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<400> 13  
Cys Leu Ala Lys Glu Asn Val Val Cys  
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Cys Gly Glu Phe Lys Val Gly Cys  
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Cys Ile Gly Glu Val Glu Val Cys  
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<223> Xaa may be present or absent

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<223> Xaa may be present or absent.

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20

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Leu Cys Thr Ala Met Thr Glu  
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Gly Ile Ser Ala Leu Val Leu Ser  
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<210> 21  
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<400> 21  
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<400> 22  
Val Ser Phe Leu Glu Tyr Arg  
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<222> (9)  
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<223> Unsure

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<221> UNSURE  
<222> (10)..(12)  
<223> Unsure

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<222> (2)..(7)  
<223> Unsure

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Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys  
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<210> 27  
<211> 7  
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<400> 28  
Leu Pro Arg Tyr Leu Leu Ser  
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Cys His Glu Gly Tyr Leu Thr Cys  
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Cys Ala Gln Asn Met Leu Cys Cys  
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<223> Description of Artificial Sequence: Synthetic

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Cys Met Ser Pro Gln Arg Ser Asp Cys  
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<210> 67

<211> 9

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Cys Leu His Ser Pro Arg Ser Lys Cys  
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<210> 68

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Cys Pro Gln Asp Ile Arg Arg Asn Cys  
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<210> 70  
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Thr Arg Arg Thr Asn Asn Pro Leu Thr

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<210> 74

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<210> 75

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Cys Thr Val Asn Glu Ala Tyr Lys Thr Arg Met Cys

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Cys Arg Leu Arg Ser Tyr Gly Thr Leu Ser Leu Cys

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<210> 77

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<210> 83  
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<400> 83  
Cys Ser Phe Gly Thr His Asp Thr Glu Pro His Cys  
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<212> PRT  
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<400> 84  
Cys Ser Glu Ala Ala Ser Arg Met Ile Gly Val Cys  
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<210> 85  
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<400> 85  
Cys Trp Glu Glu His Pro Ser Ile Lys Trp Trp Cys  
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<210> 86  
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<400> 86  
Cys Trp Asp Ala Asp Gln Ile Phe Gly Ile Lys Cys  
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<400> 87  
Cys Val Asp Ser Gln Ser Met Lys Gly Leu Val Cys  
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Cys Arg Leu Gln Thr Met Gly Gln Gly Gln Ser Cys  
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<210> 89  
<211> 12  
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<400> 89  
Cys Arg Pro Ala Gln Arg Asp Ala Gly Thr Ser Cys  
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<400> 90  
Cys Gly Gly Arg Asp Arg Gly Thr Tyr Gly Pro Cys

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&lt;210&gt; 91

&lt;211&gt; 12

&lt;212&gt; PPT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic

&lt;400&gt; 91

Cys Gly Glu Val Ala Ser Asn Glu Arg Ile Gln Cys

1

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&lt;210&gt; 92

&lt;211&gt; 12

&lt;212&gt; PPT

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&lt;223&gt; Description of Artificial Sequence: Synthetic

&lt;400&gt; 92

Cys Asn Ser Lys Ser Ser Ala Glu Leu Glu Lys Cys

1

5

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&lt;210&gt; 93

&lt;211&gt; 12

&lt;212&gt; PPT

&lt;213&gt; Artificial Sequence

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&lt;400&gt; 93

Cys Val Leu Asn Phe Lys Asn Gln Ala Arg Asp Cys

1

5

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&lt;210&gt; 94

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&lt;212&gt; PPT

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&lt;400&gt; 94

Cys Arg Gly Lys Pro Leu Ala Asn Phe Glu Asp Cys

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&lt;211&gt; 12

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Cys Glu Gly His Ser Met Arg Gly Tyr Gly Leu Cys  
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Cys Arg Asp Arg Gly Asp Arg Met Lys Ser Leu Cys  
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Cys Asp Asn Thr Cys Thr Tyr Gly Val Asp Asp Cys  
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<400> 99  
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<210> 101  
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<400> 101  
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<210> 102  
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<400> 102  
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<400> 103  
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<210> 104  
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<400> 104  
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<210> 105  
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<400> 105  
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Cys Ser Glu Gly Cys Gly Pro Val Cys Trp Pro Glu Cys  
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<400> 107  
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<210> 108  
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<223> Description of Artificial Sequence: Synthetic

<400> 108

Cys Ser Gly Ser Cys Arg Arg Gly Cys Gly Ile Asp Cys  
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<210> 109

<211> 13

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<223> Description of Artificial Sequence: Synthetic

<400> 109

Cys Gly Ala Ser Cys Ala Leu Gly Cys Arg Ala Tyr Cys  
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<211> 13

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<223> Description of Artificial Sequence: Synthetic

<400> 110

Cys Asp Thr Ser Cys Glu Asn Asn Cys Gln Gly Pro Cys  
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<210> 111

<211> 13

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<223> Description of Artificial Sequence: Synthetic

<400> 111

Cys Ser Arg Gln Cys Arg Gly Ala Cys Gly Gln Pro Cys  
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<210> 112

<211> 13

<212> PRT

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<223> Description of Artificial Sequence: Synthetic

<400> 112

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<210> 113  
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<220>  
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<400> 118  
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Arg Lys Cys Leu Arg Pro Asp Cys Gly  
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Leu Ala Cys Phe Val Thr Gly Cys Leu  
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<223> Description of Artificial Sequence: Synthetic

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<223> Description of Artificial Sequence: Synthetic

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<210> 130  
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<223> Description of Artificial Sequence: Synthetic

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Ser Cys Val Phe Cys Asp Trp Leu Ser

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<211> 9

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<211> 9

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<223> Description of Artificial Sequence: Synthetic

<400> 132

Gln Asn Cys Pro Val Thr Arg Cys Val

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<210> 133

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: Synthetic

<400> 133

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<210> 134

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<400> 135  
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<400> 140  
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<210> 152  
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<400> 153  
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<220>  
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Ser Lys Val Trp Leu Leu Leu  
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<210> 155  
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<400> 155  
Gln Val Arg Arg Val Pro Glu  
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<210> 156  
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<210> 158  
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<400> 158  
Leu Arg Ala Val Gly Arg Ala  
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<210> 159  
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<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 159  
Met Ser Pro Gln Leu Ala Thr  
1 5

<210> 160  
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<400> 160  
Gly Ala Val Leu Pro Gly Glu  
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<400> 161  
Trp Ile Glu Glu Ala Glu Arg  
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<400> 162  
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<400> 163  
Arg Gly Asp Arg Pro Pro Tyr  
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<210> 164  
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<400> 164  
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Arg Val Arg Gly Pro Glu Arg  
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<210> 166

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Gly Ile Ser Ala Val Leu Ser  
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<210> 167

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Gly Gly Arg Gly Ser Trp Glu  
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<210> 168

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<223> Description of Artificial Sequence: Synthetic

<400> 168

Gly Val Ser Ala Ser Asp Trp  
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<210> 169

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<400> 169



Phe Arg Val Arg Gly Ser Pro  
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Ser Arg Leu Ser Gly Gly Thr  
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Trp Glu Leu Val Ala Arg Ser  
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<400> 178

Cys Ser Thr Leu Cys Gly Leu Arg Cys Met Gly Thr Cys  
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<210> 179

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<400> 179

Cys Met Pro Arg Cys Gly Val Asn Cys Lys Trp Ala Cys  
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<210> 180

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<400> 180

Cys Val Gly Ala Cys Asp Leu Lys Cys Thr Gly Gly Cys  
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<400> 181

Cys Ser Ser Gly Cys Ser Lys Asn Cys Leu Glu Met Cys  
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1 5 10

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<400> 188

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Cys Asn Gln Gly Cys Ser Gly Ser Cys Asp Val Met Cys  
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<400> 199  
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<210> 279  
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<210> 320

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&lt;223&gt; Description of Artificial Sequence: Synthetic

&lt;400&gt; 433

Tyr Ser Gly Lys Trp Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

10

15

&lt;210&gt; 434

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)..(10)

&lt;223&gt; 1 to 10 independently selected amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)..(23)

&lt;223&gt; 1 to 10 independently selected amino acids

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic

&lt;400&gt; 434

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Gly Ser Xaa Xaa Xaa

1

5

10

15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20

&lt;210&gt; 435

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic

<400> 435  
 Cys Cys Phe Thr Asn Phe Asp Cys Tyr Leu Gly Cys  
   1                  5                  10

<210> 436  
 <211> 23  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> UNSURE  
 <222> (1)..(10)  
 <223> 1 to 10 independently selected amino acids

<220>  
 <221> UNSURE  
 <222> (14)..(23)  
 <223> 1 to 10 independently selected amino acids

<220>  
 <223> Description of Artificial Sequence: Synthetic

<400> 436  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Asp Val Xaa Xaa Xaa  
   1                  5                  10                  15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
                   20

<210> 437  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
           Peptide

<400> 437  
 Cys Val Asp Val Cys Cys Asp Gly Cys Pro Val Cys Cys  
   1                  5                  10

<210> 438  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
           Peptide

<400> 438  
 Arg Val Pro Leu Ser Gly Asp Val Glu His

1 5 10

<210> 439  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 439  
Leu Arg Val Met Ser Phe Thr Ser Gly Gln  
1 5 10

<210> 440  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 440  
Arg Phe Ser Val Gly Ser Leu Phe Gly Ser  
1 5 10

<210> 441  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 441  
Cys Gly Ala Thr Cys Glu Met Gln Cys Pro Ser Gly Cys  
1 5 10

<210> 442  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 442  
Gly Arg Gly Glu Ser Pro  
1 5



<210> 443  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 443  
Cys Ala Arg Ala Cys  
1 5

<210> 444  
<211> 10  
<212> PRT  
<213> Rattus sp.

<400> 444  
Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg  
1 5 10

<210> 445  
<211> 24  
<212> PRT  
<213> Rattus sp.

<400> 445  
Thr Thr Pro Val Ile Asp Gly His Asn Asp Leu Pro Trp Gln Met Leu  
1 5 10 15

Thr Leu Phe Asn Asn Gln Leu Arg  
20

<210> 446  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Nucleotide

<400> 446  
ccgctggtac cgcagatccc tggggacctt g 31

<210> 447  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Nucleotide

<400> 447

tctttctaga gctcagagag cactggagga g

31

<210> 448

<211> 411

<212> FRT

<213> Homo sapiens

<400> 448

Met	Trp	Ser	Gly	Trp	Trp	Leu	Trp	Ser	Leu	Val	Ala	Val	Cys	Thr	Ala
1				5					10					15	

Asp	Phe	Phe	Arg	Asp	Glu	Ala	Glu	Arg	Ile	Met	Arg	Asp	Ser	Pro	Val
			20					25					30		

Ile	Asp	Gly	His	Asn	Asp	Leu	Pro	Trp	Gln	Leu	Leu	Asp	Met	Phe	Asn
		35					40					45			

Asn	Arg	Leu	Gln	Asp	Glu	Arg	Ala	Asn	Leu	Thr	Thr	Leu	Ala	Gly	Thr
		50					55				60				

His	Thr	Asn	Ile	Pro	Lys	Leu	Arg	Ala	Gly	Phe	Val	Gly	Gly	Gln	Phe
	65				70					75					80

Trp	Ser	Val	Tyr	Thr	Pro	Cys	Asp	Thr	Gln	Asn	Lys	Asp	Ala	Val	Arg
				85					90					95	

Arg	Thr	Leu	Glu	Gln	Met	Asp	Val	Val	His	Arg	Met	Cys	Arg	Met	Tyr
		100						105					110		

Pro	Glu	Thr	Phe	Leu	Tyr	Val	Thr	Ser	Ser	Ala	Gly	Ile	Arg	Gln	Ala
		115					120					125			

Phe	Arg	Glu	Gly	Lys	Val	Ala	Ser	Leu	Ile	Gly	Val	Glu	Gly	Gly	His
	130					135					140				

Ser	Ile	Asp	Ser	Ser	Leu	Gly	Val	Leu	Arg	Ala	Leu	Tyr	Gln	Leu	Gly
	145				150					155					160

Met	Arg	Tyr	Leu	Thr	Leu	Thr	His	Ser	Cys	Asn	Thr	Pro	Trp	Ala	Asp
			165						170					175	

Asn	Trp	Leu	Val	Asp	Thr	Gly	Asp	Ser	Glu	Pro	Gln	Ser	Gln	Gly	Leu
		180						185					190		

Ser	Pro	Phe	Gly	Gln	Arg	Val	Val	Lys	Glu	Leu	Asn	Arg	Leu	Gly	Val
		195					200					205			

Leu	Ile	Asp	Leu	Ala	His	Val	Ser	Val	Ala	Thr	Met	Lys	Ala	Thr	Leu
	210					215					220				

Gln	Leu	Ser	Arg	Ala	Pro	Val	Ile	Phe	Ser	His	Ser	Ser	Ala	Tyr	Ser
	225				230					235					240

Val Cys Ala Ser Arg Arg Asn Val Pro Asp Asp Val Leu Arg Leu Val  
 245 250 255  
 Lys Gln Thr Asp Ser Leu Val Met Val Asn Phe Tyr Asn Asn Tyr Ile  
 260 265 270  
 Ser Cys Thr Asn Lys Ala Asn Leu Ser Gln Val Ala Asp His Leu Asp  
 275 280 285  
 His Ile Lys Glu Val Ala Gly Ala Arg Ala Val Gly Phe Gly Gly Asp  
 290 295 300  
 Phe Asp Gly Val Pro Arg Val Pro Glu Gly Leu Glu Asp Val Ser Lys  
 305 310 315 320  
 Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg Arg Asn Trp Thr Glu Ala  
 325 330 335  
 Glu Val Lys Gly Ala Leu Ala Asp Asn Leu Leu Arg Val Phe Glu Ala  
 340 345 350  
 Val Glu Gln Ala Ser Asn Leu Thr Gln Ala Pro Glu Glu Glu Pro Ile  
 355 360 365  
 Pro Leu Asp Gln Leu Gly Gly Ser Cys Arg Thr His Tyr Gly Tyr Ser  
 370 375 380  
 Ser Gly Ala Ser Ser Leu His Arg His Trp Gly Leu Leu Leu Ala Ser  
 385 390 395 400  
 Leu Ala Pro Leu Val Leu Cys Leu Ser Leu Leu  
 405 410

<210> 449  
 <211> 409  
 <212> PRT  
 <213> Sus scrofa

<400> 449

Met Trp Thr Ser Trp Trp Leu Trp Pro Leu Val Ala Val Cys Ala Ala  
 1 5 10 15  
 Asp Gln Phe Arg Asp Leu Ala Val Arg Ile Met Gln Asp Thr Pro Val  
 20 25 30  
 Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asn Leu Phe Asn  
 35 40 45  
 Asn Gln Leu Gln Asp Pro Gly Ala Asn Leu Ser Ser Leu Ala His Thr  
 50 55 60  
 His Thr Asn Ile Pro Lys Leu Lys Ala Gly Phe Val Gly Gly Gln Phe  
 65 70 75 80  
 Trp Ser Ala Tyr Val Pro Cys Asp Thr Gln Asn Arg Asp Ala Val Lys  
 85 90 95

Arg	Thr	Leu	Glu	Gln	Ile	Asp	Val	Ile	Gln	Arg	Met	Cys	Gln	Ala	Tyr		
			100					105					110				
Pro	Glu	Thr	Phe	Ala	Cys	Val	Thr	Ser	Ser	Thr	Gly	Ile	Arg	Gln	Ala		
		115					120					125					
Phe	Arg	Glu	Gly	Lys	Val	Ala	Ser	Leu	Val	Gly	Val	Glu	Gly	Gly	His		
	130					135					140						
Ser	Ile	Asp	Ser	Ser	Leu	Gly	Val	Leu	Arg	Ala	Leu	Tyr	His	Leu	Gly		
145					150					155					160		
Met	Arg	Tyr	Met	Thr	Leu	Thr	His	Ser	Cys	Asn	Thr	Pro	Trp	Ala	Asp		
				165					170					175			
Asn	Trp	Leu	Val	Asp	Thr	Gly	Asp	Asp	Lys	Ala	Gln	Ser	Gln	Gly	Leu		
		180						185						190			
Ser	His	Phe	Gly	Gln	Ser	Val	Val	Lys	Glu	Met	Asn	Arg	Leu	Gly	Val		
		195					200					205					
Met	Ile	Asp	Leu	Ala	His	Val	Ser	Val	Ala	Thr	Met	Arg	Ala	Ala	Leu		
	210					215					220						
Lys	Leu	Ser	Gln	Ala	Pro	Val	Ile	Phe	Ser	His	Ser	Ser	Ala	Tyr	Ser		
225					230					235					240		
Leu	Cys	Pro	His	Arg	Arg	Asn	Val	Pro	Asp	Asp	Val	Leu	Gln	Leu	Val		
			245						250					255			
Lys	Glu	Thr	Gly	Ser	Leu	Val	Met	Val	Asn	Phe	Tyr	Asn	Asp	Tyr	Val		
		260						265					270				
Ser	Cys	Ser	Ala	Lys	Ala	Asn	Leu	Ser	Gln	Val	Ala	Asp	His	Leu	Asp		
		275					280					285					
His	Ile	Lys	Lys	Val	Ala	Gly	Ala	Ala	Ala	Val	Gly	Phe	Gly	Gly	Asp		
	290					295					300						
Tyr	Asp	Gly	Val	Ser	Arg	Val	Pro	Ser	Gly	Leu	Glu	Asp	Val	Ser	Lys		
305					310					315					320		
Tyr	Pro	Asp	Leu	Val	Ala	Glu	Leu	Leu	Arg	Arg	Gln	Trp	Thr	Glu	Ala		
			325						330					335			
Glu	Val	Arg	Gly	Ala	Leu	Ala	Asp	Asn	Leu	Leu	Arg	Val	Phe	Glu	Ala		
			340					345					350				
Val	Glu	Gln	Ala	Ser	Asn	His	Ala	Gln	Val	Pro	Gly	Glu	Glu	Pro	Ile		
		355					360					365					
Pro	Leu	Gly	Gln	Leu	Glu	Ala	Ser	Cys	Arg	Thr	Asn	Tyr	Gly	Tyr	Ser		
	370					375					380						
Ala	Ala	Pro	Ser	Leu	His	Leu	Pro	Pro	Gly	Ser	Leu	Leu	Ala	Ser	Leu		
385					390					395					400		

Val Pro Leu Leu Leu Leu Ser Leu Pro  
405

<210> 450

<211> 410

<212> PRT

<213> Rattus sp.

<400> 450

Met Leu Ile Ile Trp Trp Phe Trp Ser Leu Leu Ala Ile Cys Ala Ser  
1 5 10 15

Asp Ser Phe Arg Asn Gln Ala Glu Asn Ile Met Arg Thr Thr Pro Val  
20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Met Leu Thr Leu Phe Asn  
35 40 45

Asn Glu Leu Arg Lys Ser Glu Ala Asn Leu Ser Ala Leu Ala Glu Thr  
50 55 60

His Thr Asn Ile Pro Lys Leu Arg Ala Gly Phe Val Gly Gly Gln Phe  
65 70 75 80

Trp Ser Ala Tyr Met Pro Cys Asp Thr Gln Asn Lys Asp Ala Val Lys  
85 90 95

Arg Ile Leu Glu Gln Ile Asp Val Ile His Arg Met Cys Gln Leu Tyr  
100 105 110

Pro Glu Thr Phe Glu Cys Val Thr Asn Ser Ser Asp Ile Leu Gln Ala  
115 120 125

Phe Arg Arg Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His  
130 135 140

Leu Ile Asp Ser Ser Leu Gly Val Leu Arg Thr Leu Tyr His Leu Gly  
145 150 155 160

Met Arg Tyr Leu Thr Leu Thr His Asn Cys Asn Thr Pro Trp Ala Asp  
165 170 175

Asn Trp Leu Val Asp Lys Gly Asp Asp Glu Ala Glu Ser Gln Gly Leu  
180 185 190

Ser Pro Phe Gly Lys Leu Val Leu Asn Glu Met Asn Arg Leu Gly Val  
195 200 205

Met Ile Asp Leu Ser His Val Ser Val Ala Thr Met Lys Asp Ala Leu  
210 215 220

Gln Leu Ser Lys Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser  
225 230 235 240

Val Cys Pro His Arg Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val

245					250					255					
Lys	Ser	Thr	Asn	Ser	Leu	Val	Met	Val	Asn	Phe	Tyr	Asn	Gln	Phe	Val
			260					265					270		
Ser	Cys	Ser	Asp	Ser	Ala	Thr	Leu	Ser	Gln	Val	Ala	Asp	His	Leu	Asp
	275						280					285			
His	Ile	Lys	Lys	Val	Ala	Gly	Ala	Gly	Ala	Val	Gly	Leu	Gly	Gly	Asp
	290					295					300				
Tyr	Asp	Gly	Val	Thr	Asn	Leu	Pro	Val	Gly	Leu	Glu	Asp	Val	Ser	Lys
305					310					315					320
Tyr	Pro	Asp	Leu	Ile	Ala	Glu	Leu	Leu	Arg	Arg	Asn	Trp	Thr	Glu	Thr
			325						330					335	
Glu	Val	Arg	Gly	Leu	Leu	Ala	Glu	Asn	Leu	Leu	Arg	Val	Phe	Ser	Ala
		340						345					350		
Val	Glu	Leu	Val	Ser	Asn	Ile	Met	Gln	Val	Pro	Glu	Glu	Glu	Thr	Ile
	355						360					365			
Pro	Val	Glu	Lys	Leu	Asp	Gly	Ser	Cys	Arg	Thr	Phe	Tyr	Gly	His	Ser
	370					375					380				
Arg	Ala	Pro	Ser	Ile	His	Leu	Gln	Ile	Gly	Ala	Leu	Leu	Ala	Ser	Leu
385					390					395					400
Ala	Ser	Leu	Val	Phe	Ser	Leu	His	Pro	Leu						
			405						410						

<210> 451  
 <211> 410  
 <212> FRT  
 <213> Mus musculus

<400> 451  
 Met Val Ile Ile Trp Trp Phe Trp Ser Leu Leu Ala Ile Cys Ala Ser  
 1 5 10 15  
 Asp Ser Phe Arg Asp Gln Ala Val Ala Ile Met Arg Thr Thr Pro Val  
 20 25 30  
 Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asn Leu Phe Asn  
 35 40 45  
 Asn Gln Leu Leu Arg Pro Asp Ala Asp Leu Asn Lys Leu Ala Gln Thr  
 50 55 60  
 His Thr Asn Ile Pro Lys Leu Lys Ala Gly Phe Val Gly Gly Gln Phe  
 65 70 75 80  
 Trp Ser Ala Tyr Met Pro Cys Asp Thr Gln Asn Lys Asp Ala Val Lys  
 85 90 95

Arg Thr Leu Glu Gln Met Asp Val Ile His Arg Met Cys Gln Leu Tyr  
 100 105 110  
 Pro Glu Thr Phe Met Cys Val Thr Asn Ser Ser Asp Ile Leu Gln Ala  
 115 120 125  
 Phe Arg Arg Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His  
 130 135 140  
 Leu Ile Asp Ser Ser Leu Gly Val Leu Arg Thr Leu Tyr His Leu Gly  
 145 150 155 160  
 Met Arg Tyr Leu Thr Leu Thr His Asn Cys Asn Thr Pro Trp Ala Asp  
 165 170 175  
 Asn Trp Leu Val Asp Arg Gly Asp Asp Glu Ala Glu Ser His Gly Leu  
 180 185 190  
 Ser Pro Phe Gly Lys Arg Leu Leu Asn Glu Met Thr Arg Leu Gly Val  
 195 200 205  
 Met Ile Asp Leu Ser His Val Ser Val Ala Thr Met Lys Asp Ala Leu  
 210 215 220  
 Gln Ile Ser Arg Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser  
 225 230 235 240  
 Leu Cys Pro His Arg Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val  
 245 250 255  
 Lys Asn Thr Ser Ser Leu Val Met Val Asn Phe Phe Ser Asn Phe Val  
 260 265 270  
 Ser Cys Ser Asp Ser Ala Thr Leu Pro Gln Val Ala Asp His Leu Asp  
 275 280 285  
 His Ile Lys Lys Val Ala Gly Ala Gly Ala Val Gly Leu Gly Gly Asp  
 290 295 300  
 Tyr Asp Gly Val Thr Met Leu Pro Val Gly Leu Glu Asp Val Ser Lys  
 305 310 315 320  
 Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg Arg Asn Trp Thr Glu Thr  
 325 330 335  
 Glu Val Arg Gly Leu Leu Ala Asp Asn Leu Ile Arg Val Phe Ser Glu  
 340 345 350  
 Val Glu Leu Val Ser Ser Asn Met Gln Ser Pro Glu Glu Val Pro Ile  
 355 360 365  
 Thr Leu Lys Glu Leu Asp Gly Ser Cys Arg Thr Tyr Tyr Gly Tyr Ser  
 370 375 380  
 Gln Ala His Ser Ile His Leu Gln Thr Gly Ala Leu Val Ala Ser Leu  
 385 390 395 400

Ala Ser Leu Leu Phe Arg Leu His Leu Leu  
405 410

<210> 452  
<211> 410  
<212> PRT  
<213> Oryctolagus cuniculus

<400> 452  
Met Trp Thr Ser Trp Trp Leu Trp Pro Leu Val Ala Val Cys Thr Ala  
1 5 10 15  
Asp Ser Phe Leu Asp Gln Ala Val Gln Ile Leu Arg Val Thr Pro Val  
20 25 30  
Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asn Lys Phe Asn  
35 40 45  
Asn Arg Leu Gln Asp Ser Arg Ala Asn Leu Thr Val Leu Ala Asp Thr  
50 55 60  
His Thr Asn Ile Pro Lys Leu Arg Ala Gly Phe Val Gly Gly Gln Phe  
65 70 75 80  
Trp Ser Ala Tyr Thr Pro Cys Asp Thr Gln Asn Lys Asp Thr Val Arg  
85 90 95  
Arg Thr Leu Glu Gln Met Asp Val Val His Arg Met Cys Gln Leu Tyr  
100 105 110  
Pro Glu Thr Phe Leu Cys Val Thr Asp Ser Ala Gly Ile Gln Gln Ala  
115 120 125  
Phe Arg Glu Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His  
130 135 140  
Ser Ile Asp Ser Ser Leu Gly Val Leu Arg Ala Leu Tyr Arg Leu Gly  
145 150 155 160  
Met Arg Tyr Leu Thr Leu Thr His Asn Cys Asn Thr Pro Trp Ala Asp  
165 170 175  
Asn Trp Leu Val Asp Arg Gly Asp Asp Glu Ala Gln Ser Gly Gly Leu  
180 185 190  
Ser Val Phe Gly Gln Arg Val Val Arg Glu Met Asn Arg Leu Gly Val  
195 200 205  
Met Ile Asp Leu Ala His Val Ser Val Ala Thr Met Lys Ala Ala Leu  
210 215 220  
Gln Leu Ser Thr Ala Pro Val Ile Phe Ser His Ser Ser Ala Phe Thr  
225 230 235 240  
Val Cys Ala His Lys Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val  
245 250 255



Lys Glu Thr Gly Ser Leu Val Met Val Asn Phe Tyr Asn Asp Tyr Val  
 260 265 270  
 Ser Cys Ala Ser Glu Ala Thr Leu Ser Gln Val Ala Asp His Leu Asp  
 275 280 285  
 Tyr Ile Lys Asn Val Ala Gly Ala Ala Ala Val Arg Phe Gly Gly Asp  
 290 295 300  
 Phe Asp Gly Val Thr Arg Leu Pro Val Gly Leu Glu Asp Val Ser Lys  
 305 310 315 320  
 Tyr Pro Asp Leu Val Ala Glu Leu Leu Arg Arg Gly Trp Thr Glu Ala  
 325 330 335  
 Glu Val Arg Gly Ala Leu Ala Glu Asn Leu Leu Arg Val Phe Arg Glu  
 340 345 350  
 Val Glu Gln Val Ser Asn Gln Ala Gln Val Pro Glu Glu Glu Pro Ile  
 355 360 365  
 Ser Leu Glu Gln Leu Gly Gly Ser Cys Arg Thr Gln Tyr Gly Tyr Ser  
 370 375 380  
 Glu Ala Pro Ser Leu His Arg Arg Pro Gly Ala Leu Leu Ala Ser Leu  
 385 390 395 400  
 Ser Leu Leu Leu Leu Ser Leu Gly Leu Leu  
 405 410